AMENDMENTS TO THE SPECIFICATION:

Please amend the specification as follows:

Please replace the title with the following:

A Method of Identifying a Chemical Entity which is a Hydroxylase Modulator.

Please replace the paragraph beginning at page 3, line 13 with the following amended paragraph:

Description of the Figures

Figure 1: 20G binding site.

Figure 2: binding of Asn-803.

Figure 3: conformation of CAD at site 1 (SEQ ID NO: 24).

Figure 4: conformation of CAD at site 2 (SEQ ID NO: 25).

Figure 5: figure indicating the turn formed by 802-804 of HIF-CAD at the active site of FIH.

Figure 6: conformation of the turn formed by residues 802-804 of HIF-CAD at the active site of FIH.

Please replace the paragraph beginning at page 18, line 18, with the following amended paragraph:

If desired the valine residue is connected to one or more units of the peptide DESGLPQLTSYDCE- (SEQ ID NO: 1) in the order given e.g. to glutamic acid (E) alone or to, for aspartic acid (D)-cysteine (C)-glutamic acid (E)-, or a longer chain such as PQLTSYDCE- (SEQ ID NO: 2).

Please replace the paragraph beginning at page 35, line 10, with the following amended paragraph:

Catalytic FIH-1 mediated hydroxylation of a synthetic 19 residue peptide corresponding to residues 788-806 of HIF-1 α was confirmed by mass spectrometric analysis of HPLC purified material: Native peptide 19mer [M+2H]²⁺ = 1026.67Da, modified peptide 19mer [M+2H]²⁺ = 1034.61Da, a mass difference of +8Da of the doubly charged ions, corresponding to +16Da in the peptide (oxygen). N-Terminal Edman degradation of the product peptide gave the following sequence: DESGLPQLTSYDCEVxA (SEQ ID NO: 3), where x was not asparagine. The peak from this (16th) cycle of Edman degradation ran to a similar position as the β -hydroxyasparagine standard. Acid hydrolysis of the modified peptide followed by amino acid analysis showed the presence of β -hydroxyaspartic acid only.

Please replace the paragraph beginning at page 41, line 26, with the following amended paragraph:

Table 2. Partial sequence alignment of FIH with a selection of JmjC domain containing proteins (SEQ ID NOS 4-20, respectively, in order of appearance). FIH secondary structure is indicated above the alignment. Selected 2OG binding residues found in FIH are indicated by dark triangles under the alignment and the two iron binding residues by light triangles. SWALL accession numbers are indicated on the left of the alignment.

Please add the following paragraph immediately after the paragraph beginning at page 41, line 26:

Table 3. Coordinates for crystal structures 1, code 1H2K (SEQ ID NOS 21-22), 2, code 1H2L (SEQ ID NOS 21-22), 3, code 1H2M (SEQ ID NOS 21 and 23) and 4, code 1H2N (SEQ ID NO 21).

Please replace Table 2 on page 42 with the table on the next page. A marked up copy of Table 2 indicating the changes is attached at the end of this paper.

\$10 \$11	FNWNWINKQQGKRGWGQLISNLLLIMEGNVIPAHYDEQQMFFAQIKGYKRCILFPPD	ELAADLRVSDLDEAQQ (4)PPDAVNFWL@DERAVMSMHKDPYENVYCVISGHKDEVLIPPH	alkedisIpurcii (5) pgavdikahläpagtvsemeydpkhēllogvfgskriilaapa	KIVRKLSHVENLMPEEC(4) PNVQKXCLMSVRDSYTDERIDFGGTSVWYBVLKGEKIFYLIRPT	revoetsmunitation (20) price eclas magsylde and eccssvynelikserieviaart	revodismakrimsdv (11) pkiegicaamansymdehofggsvyehvekgs (0) kiey taapt	EIVROIDWUDVVRPKQ (17) PKVQKYCLMSVKNCYTDFÄIDFGGTSVRYHILRGS (0) KVFGLIPPT	-OndivokiwSenchlery (11) PrvtkytlmsvrdaytderldergtSvyynvisgorrelleppt	-KTDVFQEVM-MSDFGPP-RNGQESTLWISSLGAHTPCHLDSYGCHLVFQVQGRKRWHILFPPE	FeddifhyaddkkrpphrhevmsparsqualkidplgtsanpsliggerkravilePi	TILDYVNKDYNIQID:VNTAXLYFÉMNKTTFANHTEDMOLYSINYLHFGAPKTWYVVPPE	PYLYE MAKTTFAHHTEDMDLYSINYLHBIGEPRSWYALPPE	VYLYESMYKITEPMBADMDLYSINFLHPGAPKYNFFAISSE	TIINLVNIDYNIIID VNTAYLYF MAKSSFAMBIEDMDLYSINYLHFGAPKTRYAIPPA	TILDLVEKESGITIEGVNTPYLYESMAKTSFAMETEDMOLYSINYLHEGEPKSWYSVPPE	REVXN PKNSWTSXHADVEGSFSWSTNIVGLKKWLIMPPG	reavijshlotaahdovaashsesvnicovkchleidek	ng HIF	sing with	otein			
β8 β9 3	LLLEMEGNVTPAH	VEWICEDERAVITSMIN	CAHL PAGTVS PAGE	CLMSVRDSYTDER	CLA MAGSYTDER	CAAAMANSYTDER	CLMSVKNCYTDF	TLMSVKDAYTDFR	LWI SLGAHTPCH	IEVM PARSGTATH	LYFEMMITTEAME	LYE MUKTTERHE	LYFENYKTTERNE	LYPENMKESEAME	LYFEMWKTSFAME	WYN PRINSWESKH	AYI. SHLMINGER	Factor Inhibiting HIF	Protein associating with	small stress protein			
	GKRGWGQLTSNI	SDLDEAQQ (4) - PPDAVN	IPDECTI (5) PGAVDIR	VENLMPEEC (4) PNVOKY	IVNRLINED V (20) PKVEQE	akrlwsdv (11) pkiegi	VDVVRRKQ (17)PKVQKY	FNGHLEKV (11) PKVTKY	FGPP RNGQEST	DKKRPPHRW	IQID:VNTAX	1	•	IIID: WWTAW	THIEGONALBX	1		FIH = Fa	PASS1 = Pro	SIL			
α7		ELAADLRV	ALKEDIS	KIVRKLS	REVOBIS	RFVQDIS	EIVROID	ONDINDRIMS		FEDDLFHYAD	TITEDYWKDYN	TVLDVVEEECGISIEX VNT	TILEDINYEIKGVNT	TILNLVATIDYN	TILDIVEKESG	FASDWINEQLIQQTRDDY	FaddwinayvIdcesddf	lens	Drosophila melanogaster	Caenorhabditis elegans	Saccharomyces cerevisiae	Rattus norvegicus Schizosacharomyces pomba	•
	FIH	_	_			_	_		PASS1									sapi	ophil	orhat	haron	us no	
		n Q9VU77	п одмомз	s Q9UPP1	2 29BI67	≥ Q20367	п ОЭVННЭ	P40034	1 Q9R153	2 Q9GYI4	0306L0	: 094877	090297	1 Q9V333	075164	1 Q9VJ97	013977	= Homo sapiens	8	Đ	ä	0 K	
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